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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/04259

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : D02G 1/16; D02J 1/08
US CL : 28/272, 274

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 28/271, 272, 274, 275, 276

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P ✓	US 6,438,812 B1 (JANSEN) 27 August 2002.	1-30
A	US 6,163,944 A (LIN) 26 December 2000.	1-30
A	US 5,964,015 A (SEAR) 12 October 1999.	1-30
A	US 6,308,537 B1 (LIN) 30 October 2001.	1-30
A	US 6,311,376 B1 (HINCHLIFFE et al) 06 November 2001.	1-30
A	US 6,148,490 A (BERTSCH) 21 November 2000.	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance		
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"O" document referring to an oral disclosure, use, exhibition or other means		document member of the same patent family
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Date of the actual completion of the international search

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Published:

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